Honeywell

MegaPIT™

Protocol Interface Translator

HS10PIT

User Guide

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Revisions

Issue	Date	Revisions
A	June 2007	Initial Revision.
B	July 2007	First Release Revision.
C	Dec 2007	Updated Release Revision for content and format updating.
D	Feb 2009	New firmware; added *Chapter 4, MegaPIT Maintenance*
E	June 2010	Added *Appendix A, Typical Application* and *Appendix B, PTZ Look Up Table*; updated back cover; added *Warranty and Service*; minor grammatical changes throughout.

FCC Compliance Statement

Information to the User: This equipment has been tested and found to comply with the limits for a Class B digital device. Pursuant to Part 15 of the FCC Rules, these limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or a radio/TV technician for help.

Caution Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

European Compliance Statement

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Caution Users of the product are responsible for checking and complying with all federal, state and local laws and statutes concerning the monitoring and recording of video and audio signals. Honeywell shall not be held responsible for the use of this product in violation of current laws and statutes.

Explanation of Graphical Objects

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the enclosure of the product that may be of sufficient magnitude to constitute a risk of electric shock to the person.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance servicing instructions in the literature accompany the product.

Important Safety Instructions

READ INSTRUCTIONS - All safety and operating instructions should be read before the unit is operated.

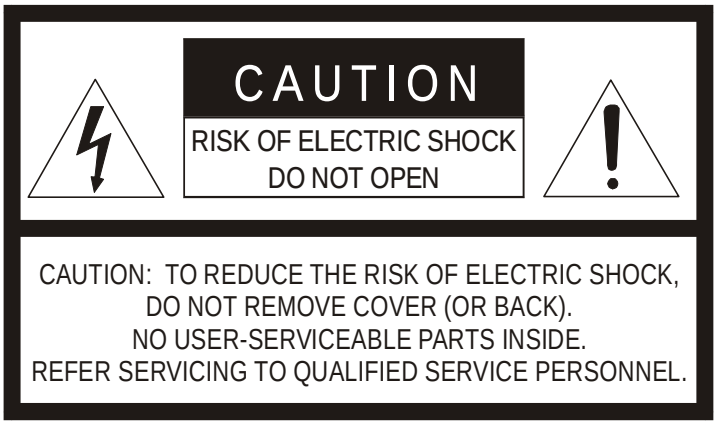
1. RETAIN INSTRUCTIONS - The safety and operating instructions should be retained for future reference.
2. HEED WARNINGS - All warnings on the unit and in the operating instructions should be adhered to.
3. FOLLOW INSTRUCTIONS - All operating and use instructions should be followed.
4. CLEANING - Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
5. ATTACHMENTS - Do not use attachments not recommended by the product manufacturer as they may result in the risk of fire, electric shock, or injury to persons.
6. WATER AND MOISTURE - Do not use this unit near water or in an unprotected outdoor installation, or any area classified as a wet location.
7. ACCESSORIES - Only use accessories specified by the manufacturer. Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the equipment. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of

the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. Wall or shelf mounting should follow the manufacturer's instructions and should use a mounting kit approved by the manufacturer.

8. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
9. POWER SOURCES - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your facility, consult your product dealer or local power company.
10. OVERLOADING - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
11. POWER-CORD PROTECTION - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords, plugs, and convenience receptacles.
12. SERVICING - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
13. DAMAGE REQUIRING SERVICE - Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power-supply cord or plug is damaged.
    b. If liquid has been spilled, or objects have fallen into the unit.
    c. If the unit has been exposed to rain or moisture.
    d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
    e. If the unit has been dropped or the enclosure has been damaged.
    f. When the unit exhibits a distinct change in performance - this indicates a need for service.
14. REPLACEMENT PARTS - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
15. SAFETY CHECK - Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
16. LIGHTNING AND POWER LINE SURGES - For added protection of this unit when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the unit due to lightning and power-line surges.
17. HEAT - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
18. INSTALLATION - Install in accordance with the manufacturer’s instructions. Do not install the unit in an extremely hot or humid location, or in a place subject to dust or mechanical vibration. The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.

Prior to installation and use of this product, please observe the following cautions and warnings.

Caution


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Warnings

WARNING: Installation and servicing must be performed by qualified personnel in accordance with current IEE wiring regulations.

WARNING: The PSU must be wired to a double pole fuse spur with 3mm separation. The 3A fuse spur must be located close to the PSU.

WARNING: Using replacement parts or accessories other than the original manufacturers may invalidate the warranty.

WARNING: There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to their instructions.

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About This Document

This document introduces the Honeywell MegaPIT (HS10PIT). It covers how to install and operate the MegaPIT.

Overview of Contents

This document contains the following chapters and appendices:

- *Chapter 1, Introduction*, provides an overview of the basic operation of the MegaPIT and describes the alarms and protocols.
- *Chapter 2, Installation*, shows the port connection and system configuration.
- *Chapter 3, Configuration*, provides the procedure for configuring the MegaPIT using the front panel buttons or using a web browser.
- *Chapter 4, MegaPIT Maintenance*, covers how to upgrade the software, and import and export the configuration file.
- *Appendix A, Typical Applications*, shows a typical application where a MegaPIT is used in a MAXPRO-Net Server/VideoBloX system. This appendix shows the connection, pin definitions, and how to configure the MegaPIT.
- *Appendix B, PTZ Look Up Table*, provides a comprehensive table for determining values to add to Setmax source control.
- *Appendix C, Specifications and Dimensions*, includes the specifications and product dimensions.

Typographical Conventions

This document uses the following typographical conventions:

Font	What it represents	Example
Bold	Menu tabs or options you select	On the **Menu Menu**, select **System Config**.
	Buttons you click to perform actions	Press **ENTER**.
Italic	Emphasis, titles, or first-time defined concepts and items.	
	Cross-reference within document	See *Chapter 2, Installation*.
	Cross-reference to an external source	Refer to the *MAXPRO-Net Configuration Software User's Guide*.

Warranty and Service

Subject to the terms and conditions listed on the Product warranty, during the warranty period Honeywell will repair or replace, at its sole option, free of charge, any defective products returned prepaid.

In the event you have a problem with any Honeywell product, please call Customer Service at 1.800.796.CCTV for assistance or to request a **Return Merchandise Authorization (RMA)** number.

Be sure to have the model number, serial number, and the nature of the problem available for the technical service representative.

Prior authorization must be obtained for all returns, exchanges, or credits. **Items shipped to Honeywell without a clearly identified Return Merchandise Authorization (RMA) number may be refused.**

1

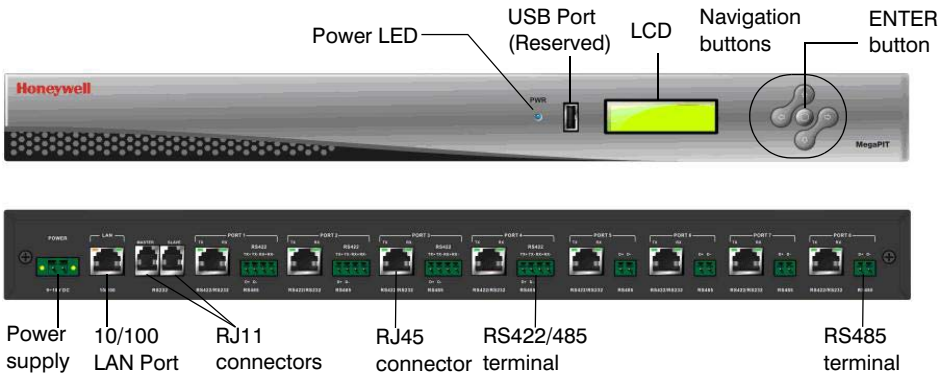
Introduction

MegaPIT (HS10PIT) is used to combine two MAXPRO-Net Servers to increase reliability by automatically switching in the event of a System Controller failure. It implements protocol interface transfer from MAXPRO-Net to a range of protocols compatible with equipment such as MAXPRO-Net/VideoBloX Matrix, and PTZ (Pelco D, Pelco P, VCL, IntelliBus™ and Diamond).

The MegaPIT has ten serial communications ports. The Master and Slave ports are connected to Master and Slave servers, which are the controllers of the system. The other eight ports are connected to various equipment, such as keyboards and subracks. The MegaPIT unit receives serial messages from the Master/Slave controller via the Master/Slave ports and sends these messages to devices via other communication ports.

Basic Operation

Figure 1-1 MegaPIT Front and Rear Views



System parameters are typically configured through the five buttons to the right of the LCD display (see *Figure 1-1*). After pressing ENTER to enable the LCD menu, the related menu and icons display in the LCD, and the current option of the menu is highlighted.

To move between the LCD menu options, use the Navigation buttons (UP/DOWN/LEFT/RIGHT) to move through and select the menu options. Press ENTER (center button) to confirm the menu selection.

Alarm Description

MegaPIT is designed to report operation status. It simulates an RD400 alarm input module located in pseudo-slot (0). For these alarms to be used, they must be included in the **External Alarms Input** table in MAXPRO-Net.

Note To avoid MegaPIT indicating failure during system startup, be sure to set the **All** parameter in the **CTRL** field of the Serial Communications Ports, for any ports that are connected to MegaPIT.

Alarm inversion is **not** supported. All alarms must be defined as **N**/**O** type alarms.

Table 1-1 Alarms

Alarm	Description
ALARM 1	The MegaPIT CPU is operating correctly, to detect a CPU failure. The alarm is ACTIVATED 10 seconds after any RESET command, or 10 seconds following cold-boot initialization.
ALARM 2	Master Computer Fail An ACTIVE alarm is generated when communication is lost with the MASTER computer. The alarm CLEARS upon restoration of communications with the MASTER computer.
ALARM 3	Not defined
ALARM 4	Not defined
ALARM 5	Slave Computer Fail An ACTIVE alarm is generated when communication is lost with the SLAVE computer. The alarm CLEARS upon restoration of communications with the SLAVE computer.
ALARM 6	Master Selected Status An ACTIVE alarm is generated when the MASTER computer is selected as the system controller. The alarm CLEARS if the SLAVE computer is selected as the system controller. This alarm is activated by automatic and manual selection changeover.
ALARM 7	Slave Selected Status An ACTIVE alarm is generated when the SLAVE computer is selected as the system controller. The alarm CLEARS if the MASTER computer is selected as the system controller. This alarm is activated by automatic and manual selection changeover.
ALARM 8	Not defined

Note For more information on alarms in general and details of the **External Alarm Inputs** tab specifically, refer to the *MAXPRO-Net Configuration Software User's Guide*.

Protocol Description

The Master/Slave port communicates with the server only in RS232 mode and MAXPRO-Net protocol. Ports 1 to 8 can be set to RS232, RS485, RS422 mode with each protocol.

Functions Supported by MAXPRO-Net and VideoBloX Protocols

Table 1-2 lists the functions supported by the MAXPRO-Net and VideoBloX protocols.

Table 1-2 Functions Supported by MAXPRO-Net and VideoBloX Protocols

Function	MAXPRO-Net	VideoBloX
Matrix switch	✓	✓
Update Date & Time	✓	✓
Write a line of text to a specified output channel and specified line	✓	✓
Clear a line of text from a specified output channel and specified line	✓	✓
Initialize text inserter	✓	✓
Time line selection	✓	✓
Enable video loss/video restored detection	✓	
Reset subrack	✓	
Poll subrack	✓	
Title flash		✓
Title off function		✓
Read back video status from VideoBloX (when Video Polling option is set **ON**)		✓

Note Please pay attention to the **Extended** and **Video Polling** settings when the **Protocol** option is set to **VideoBloX**. See *page 25* for more information.

Functions Supported by PTZ Protocols

PTZ protocols (Pelco D, Pelco P, VCL, IntelliBus™, Diamond) support these functions:

Table 1-3 PTZ Protocols Supported Functions

Function	Function
Turn left	Iris open
Turn right	Iris close
Turn up	Focus near
Turn down	Focus far
Zoom out	Preshot recall
Zoom in	Preshot store
Pan, Tilt, and Zoom control at the same time	Set AUX (only for Pelco D)
	Clear AUX (only for Pelco D)

Note Please pay attention to the **SOURCE CONTROL** parameters in **Video Inputs** of the MAXPRO-Net Server when controlling PTZs via MegaPIT.

Figure A-8 shows the PTZ control parameters in MAXPRO-Net server. *Table A-4* describes each parameter.

2

Installation

This chapter covers the port connections and shows a typical system configuration.

Before You Begin

Before you install your Honeywell MegaPIT, please read this guide carefully. Keep this guide for future reference.

Unpack Everything

Check that the items received match those listed on the order form and packing slip. Your MegaPIT packing box should include:

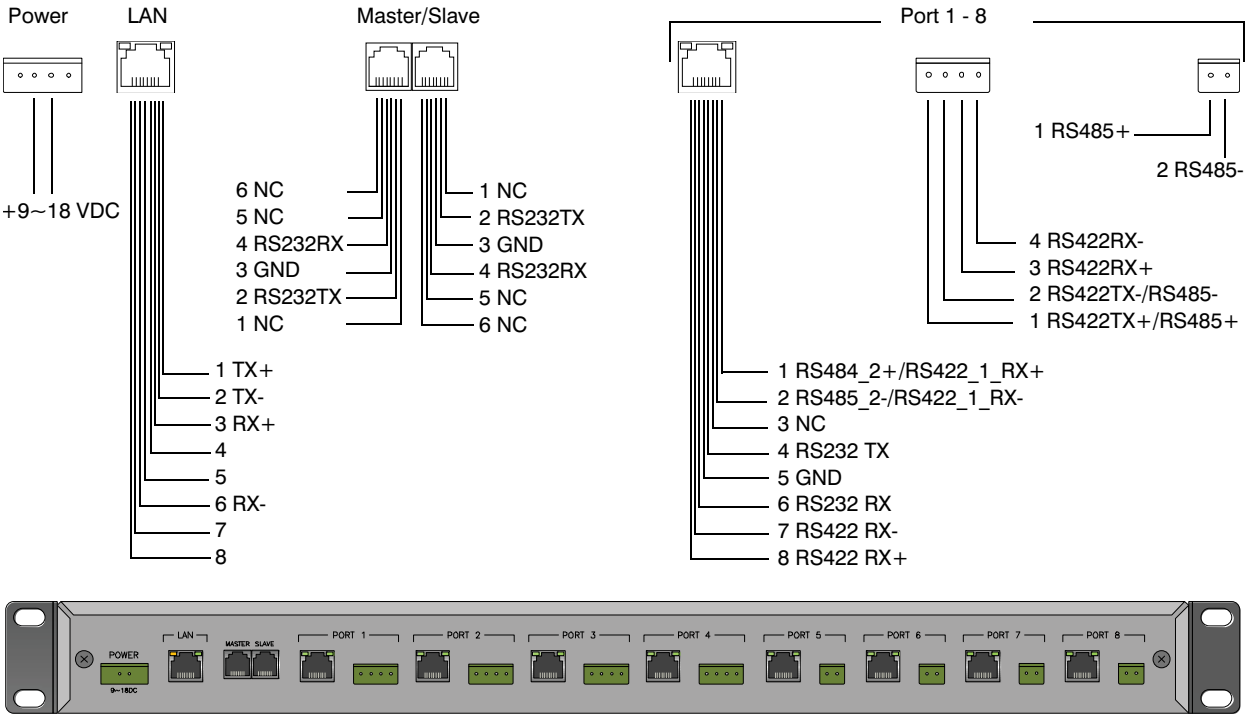
Table 2-1 Shipping List

Quantity	Description	Quantity	Description
1	MegaPIT main unit	1	This user guide
1	100-240 VAC Adapter	2	Case holder
3	10/100M Network cable, 6.56 ft. (2M)	4	4 Terminal block plug
2	RJ45 to DB9M adapter for VideoBloX Master mode	4	2 Terminal block plugs
2	4-way RJ11 flat ribbon crossover cable, 6.56 ft. (2M)		

If any parts are missing or damaged, contact the dealer you purchased the MegaPIT from or call Honeywell Customer Service (see *Warranty and Service* on page *14*).

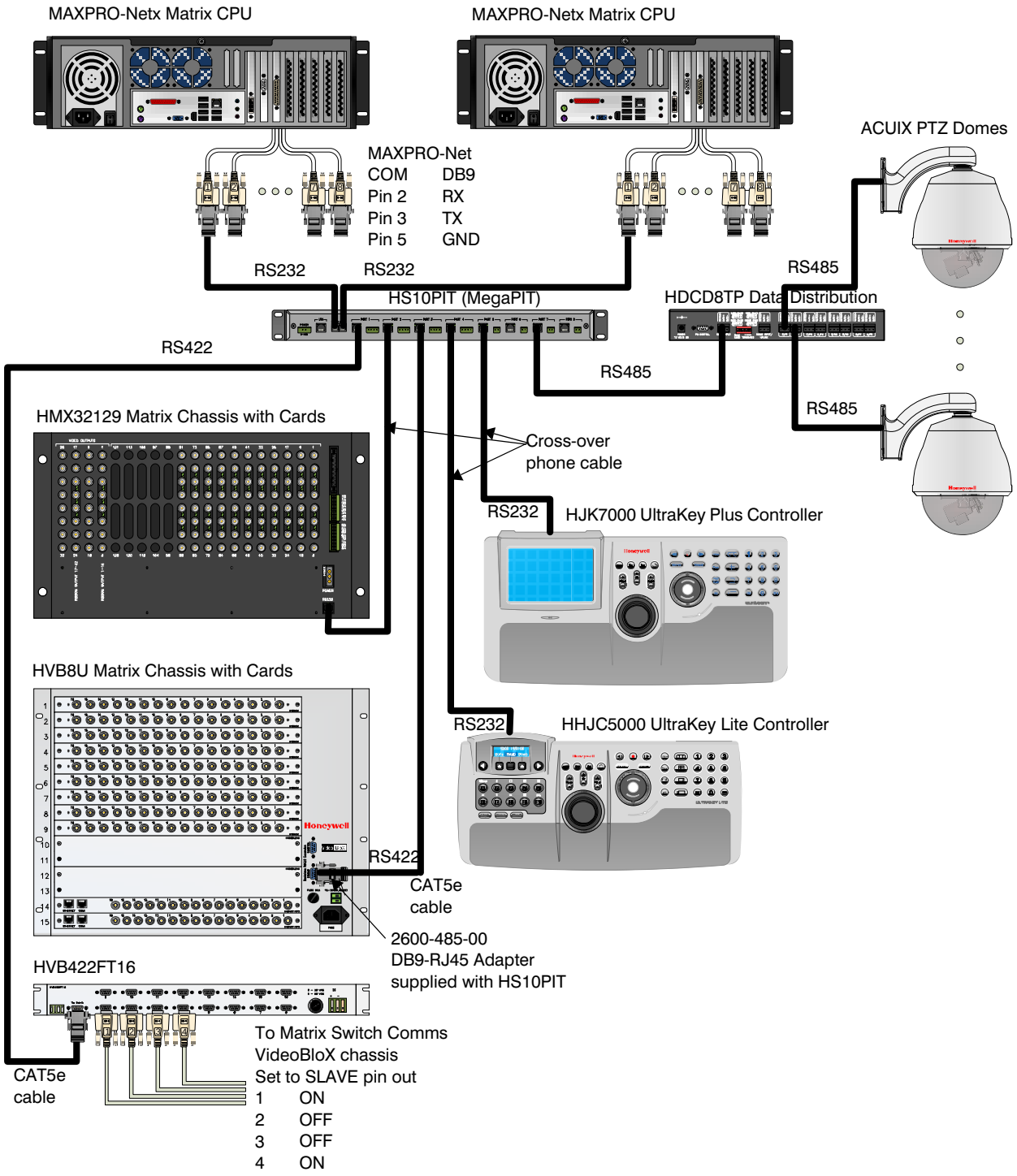
Port Connections

Figure 2-1 MegaPIT Port Connectors



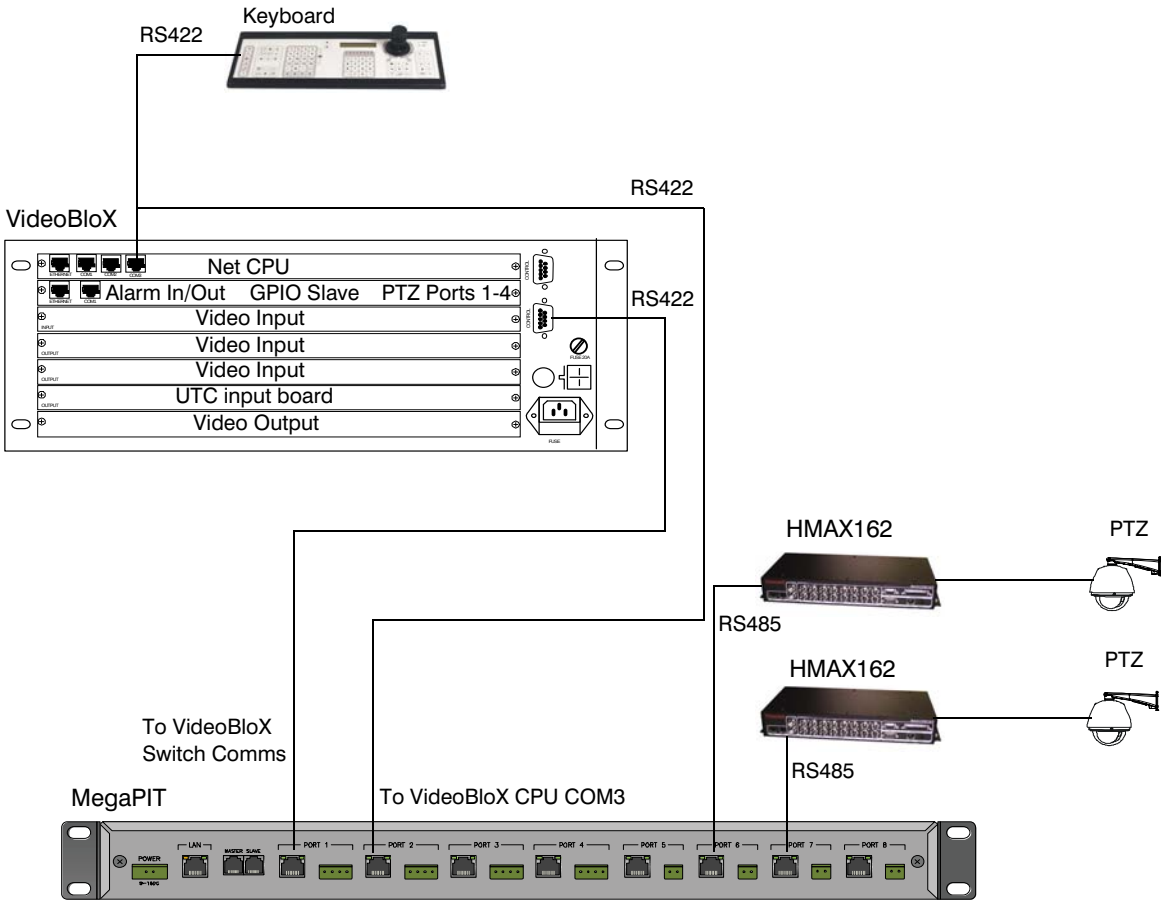
Device Connections

Figure 2-2 System Connections



If MegaPIT is required to connect with one or more HMAX162 matrix switchers, the connections should follow *Figure 2-3*.

Figure 2-3 MegaPIT Connected to HMAX162



1. Set the following parameters for Ports 1 and 2:

   Parity = **None**
   Stop bits = **1**
   Data bits = **8**
   Mode = **RS485**
   Protocol = **HMAX162(matrix)**

   For more information, see *Configuring the Serial Ports* on page *26*. Also, baud rate should be **VB Switch Comms** and **VB CPU COM3** and they should be connected, respectively, to VB Switch Comms and VB CPU Com3.

2. Set the following parameters for Ports 3 to 8:

   Baud rate = **9600**
   Parity = **None**
   Stop bits = **1**
   Data bits = **8**
   Mode = **RS485**
   Protocol = **HMAX162(matrix)**

   For more information, see *Configuring the Serial Ports* on page *26*. Connect to the HMAX162.

3. For switch video and control PTZ, refer to the *HVBNET16CPU Configuration Guide*.

3

Configuration

This chapter describes how to configure the MegaPIT. The network and serial communication items (protocol selection, baud rate, parity, data bits, stop bits, IP address, and so on) for the MegaPIT can be configured in two ways:

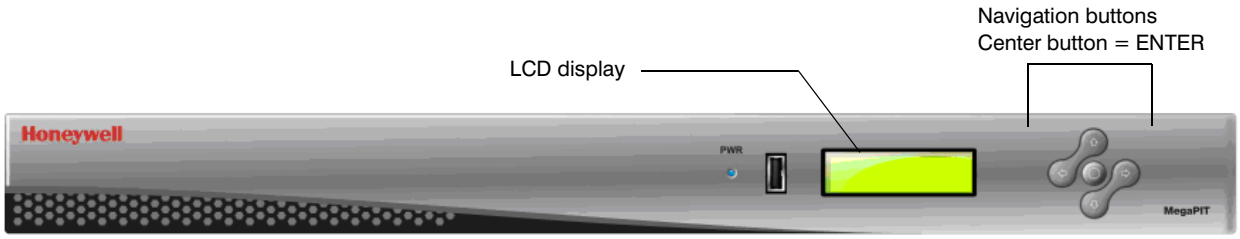
- Using the LCD menu (see *Configuration Using the LCD Menu* on page *23*)
- Using the MegaPIT web browser (see *Configuration Using the MegaPIT Web Browser* on page *29*)

Configuration Using the LCD Menu

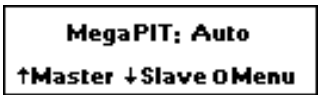
Caution Do not configure the MegaPIT using the LCD and the MegaPIT web browser at the same time.

1. To access the menu, press **ENTER** (center button) to the right of the LCD on the MegaPIT housing (see *Figure 3-1*).
2. The menu and icons display in the LCD and the current menu item is highlighted. Use the navigation buttons to move through and select the options.
3. Press **ENTER** to confirm the menu item or setting.

Figure 3-1 MegaPIT Front Panel LCD and Navigation Buttons



The MegaPIT idle screen displays in the LCD as follows:



To switch MegaPIT among the three working states (Auto, Master, and Slave), press **UP**/**DOWN**.

In **Auto** status, the Master server is preferential; that is, MegaPIT automatically switches to Slave only when the Master server fails.

In **Master** status, MegaPIT must work with the Master server regardless of whether the Master server fails or not.

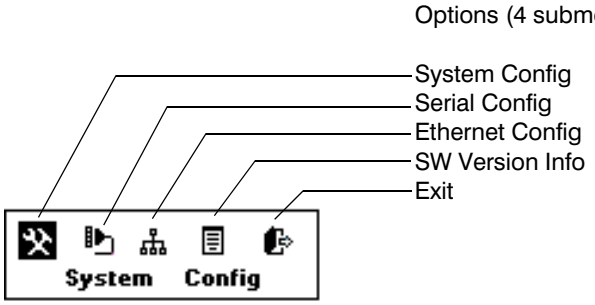
Slave status acts the same as Master status.

Regardless of which server is being used, the same Failed message displays in the LCD.

Configuring the System Settings

To configure the system settings:

1. In idle status, press **ENTER** to display the **Admin Menu**. The Admin menu displays.



2. Select **System Config**.

3. The **System Config** menu displays. Follow *Table 3-1* to set the system parameters.

Table 3-1 System Config Submenu Descriptions

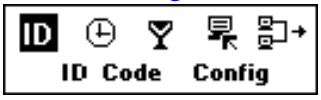
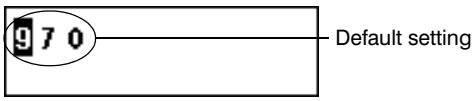
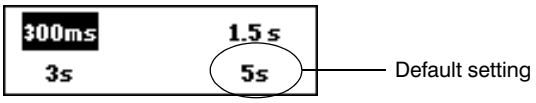
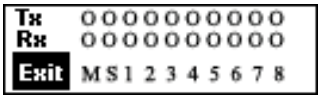
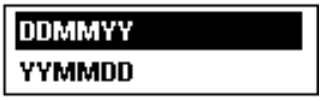
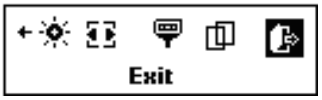
Submenu Options	Description
ID Code Config 	Selects the destination subrack required to execute the command string. Options are 0 to 999. For high-level interfaces, use the ID code 999. The LCD displays the current ID. The default ID is **970**.  1. Press **LEFT**/**RIGHT** to move between digits. 2. Press **UP**/**DOWN** to increase/decrease the value of the highlighted digit. 3. Press **ENTER** to confirm the setting.
Switch Time 	The time spent switching between Master and Slave controllers. The LCD displays the Switch Time options. The default is **5s**.  1. Press **LEFT**/**RIGHT**/**UP**/**DOWN** to select the desired menu item. 2. Press **ENTER** to confirm the setting.
Filter Ack 	ON indicates the filter is enabled. OFF indicates the filter is disabled. The default is **ON**. 1. Press **LEFT**/**RIGHT** to select the desired menu item. 2. Press **ENTER** to confirm the setting.
Video Polling 	ON indicates video loss detection is enabled. The default is **ON**.
Cascade 	The default is **OFF**. **Note** This menu item is reserved.
Backlight Config 	The default option is **OFF**.

Table 3-1 System Config Submenu Descriptions

Submenu Options	Description
Extended 	For VideoBloX matrix switchers with more than 256 outputs, set Extended to **ON**. The matrix input cards must be v2.03 or later. The default is **OFF**, indicating the output is less than or equal to 256.
Serial Port Test 	The status of each port (M [Master], S [Slave], and 1 to 8) displays here.  If one port is receiving data, its RX icon will flicker. When the port is transmitting data, the TX icon for that port flickers.
DateTime Format 	The default is **DDMMYY**.  Choose from these options: DDMMYY, YYMMDD YYDDMM, MMDDYY DDMMMYY, MMMDDYY YYDDMMM, YYMMMDD DDMMYYYY, YYYYMMDD YYYYDDMM, MMDDYYYY DDMMMYYYY, MMMDDYYYY YYYYDDMMM, YYYYMMMDD
Exit 	Exits the System Config menu.

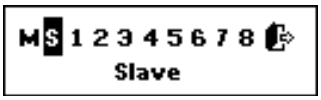
Configuring the Serial Ports

The Serial Config menu includes options for setting serial communication parameters, such as baud rate, parity and data bits. Each port must be configured separately.

To configure the serial ports:

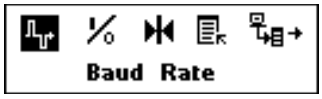
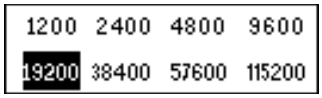
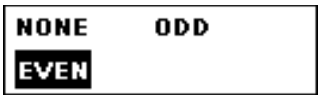
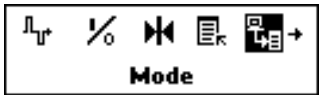
1. Press **ENTER** to display the **Admin Menu** and then select **Serial Config**.

2. The **Serial Config** menu displays. Select **Master**/**Slave**, or **Ports 1** to **8**.



3. Follow *Table 3-2* to set the serial port parameters.

Table 3-2 Serial Config Submenu Descriptions

Submenu Options	Description
Baud Rate 	Options are shown below. The default is **19200**. 
Parity 	Options are shown below. The default is **EVEN**. 
Stop Bits 	Options are shown below. The default is **1 Stop Bit**.
Data Bits 	Options are shown below. The default is **7 Data Bits**.
Mode 	Options are shown below. The default is **RS232**.
Protocol 	The default is **Maxpro-net(matrix)**. Choose from these options: Maxpro-net(matrix) VideoBlox(matrix) Pelco D(PTZ) Pelco P(PTZ) VCL(PTZ) Diamond(PTZ) AD(PTZ)* Intellibus(PTZ) Pelco(matrix)* AD(matrix)* CT40A HMAX162(matrix) *These options are not currently supported. **Note** For the Master/Slave port, the only option available is Maxpro-net(matrix).
Exit	Exits the Serial Config menu.

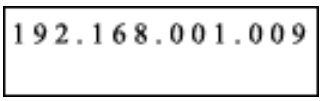
Configuring the Network

To configure the network:

1. Press **ENTER** to display the **Admin Menu** and then select **Ethernet Config**.

2. The **Ethernet Config** menu displays.
3. Follow *Table 3-3* to set the network parameters.

Table 3-3 Ethernet Config Submenu Descriptions

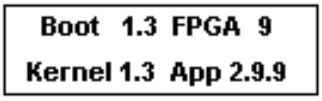
Submenu Options	Description
IP Address 	The default is **192.168.001.009**.  1. Press **LEFT**/**RIGHT** to move between digits. 2. Press **UP**/**DOWN** to increase/decrease the value of the highlighted digit. 3. Press **ENTER** to confirm the setting.
Default Gateway 	The default is **192.168.001.001**.
Subnet Mask 	The default is **255.255.255.000**.
Exit	Exits the Ethernet Config submenu.

Displaying the Software Version Information

To see the current software version information:

1. Press **ENTER** to display the **Admin Menu** and then select **SW Version Info**.

2. The **Software Version Info** submenu displays. This is a status only screen.



3. Press **ENTER** to exit the SW Version Info submenu.

Configuration Using the MegaPIT Web Browser

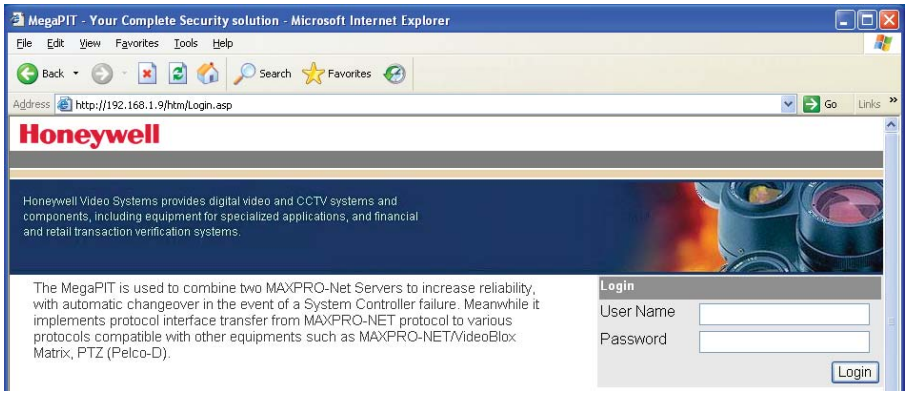
Caution Do not configure the MegaPIT using the LCD and the MegaPIT web browser at the same time.

Note Internet Explorer v6.0.0 or later is required.

To log on to the MegaPIT web browser:

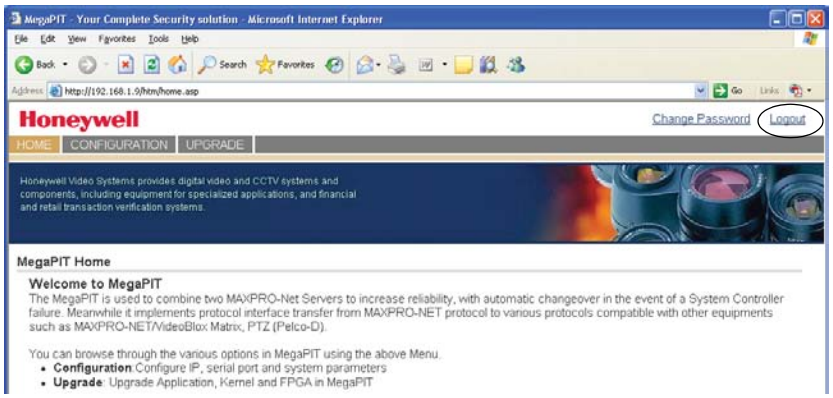
1. In the Address bar of Internet Explorer, enter the IP address for MegaPIT. This is the same IP address as in *Configuring the Network* on page *28*.
2. The Log on window displays (see *Figure 3-2*).

Figure 3-2 Log On Window


MegaPIT - Your Complete Security solution - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.1.9/htm/Login.asp
Go Links
Honeywell
Honeywell Video Systems provides digital video and CCTV systems and components, including equipment for specialized applications, and financial and retail transaction verification systems.
The MegaPIT is used to combine two MAXPRO-Net Servers to increase reliability, with automatic changeover in the event of a System Controller failure. Meanwhile it implements protocol interface transfer from MAXPRO-NET protocol to various protocols compatible with other equipments such as MAXPRO-NET/VideoBlox Matrix, PTZ (Pelco-D).
Login
User Name
Password
Login

3. Enter the user name and password and click **OK**. The default user name is **Administrator** and the default password is **1234** (both are case sensitive).
4. Click **Login**. The MegaPIT Home page displays (see *Figure 3-3*).

Figure 3-3 MegaPIT Web Browser Home


MegaPIT - Your Complete Security solution - Microsoft Internet Explorer
Honeywell
Change Password
Logout
HOME
CONFIGURATION
UPGRADE
Honeywell Video Systems provides digital video and CCTV systems and components, including equipment for specialized applications, and financial and retail transaction verification systems.
MegaPIT Home
Welcome to MegaPIT
The MegaPIT is used to combine two MAXPRO-Net Servers to increase reliability, with automatic changeover in the event of a System Controller failure. Meanwhile it implements protocol interface transfer from MAXPRO-NET protocol to various protocols compatible with other equipments such as MAXPRO-NET/VideoBlox Matrix, PTZ (Pelco-D).
You can browse through the various options in MegaPIT using the above Menu.
Configuration: Configure IP, serial port and system parameters
Upgrade: Upgrade Application, Kernel and FPGA in MegaPIT

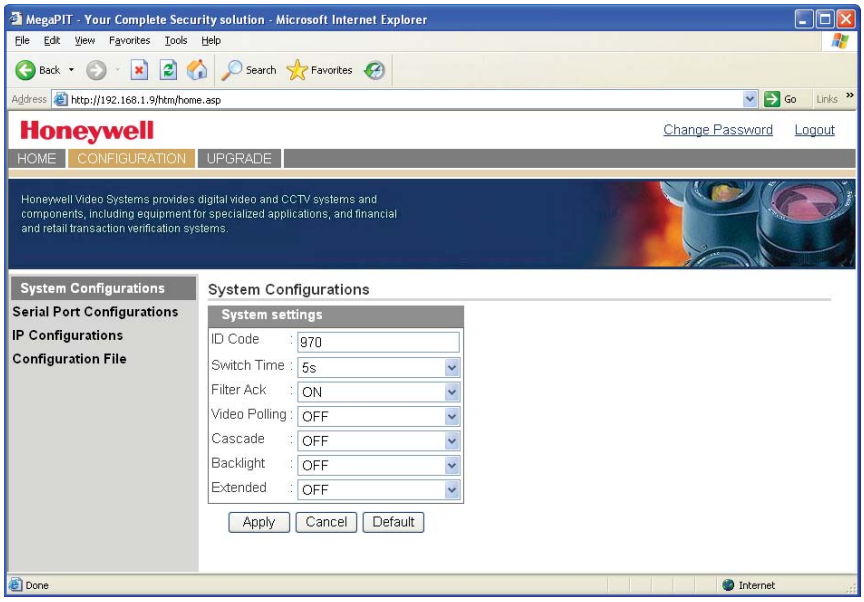
Exit the MegaPIT web browser

Configuring the System Settings

To configure system settings:

1. On the Home page, select the **CONFIGURATION** tab.
2. Select **System Configurations** on the left pane.

Figure 3-4 System Configurations Window



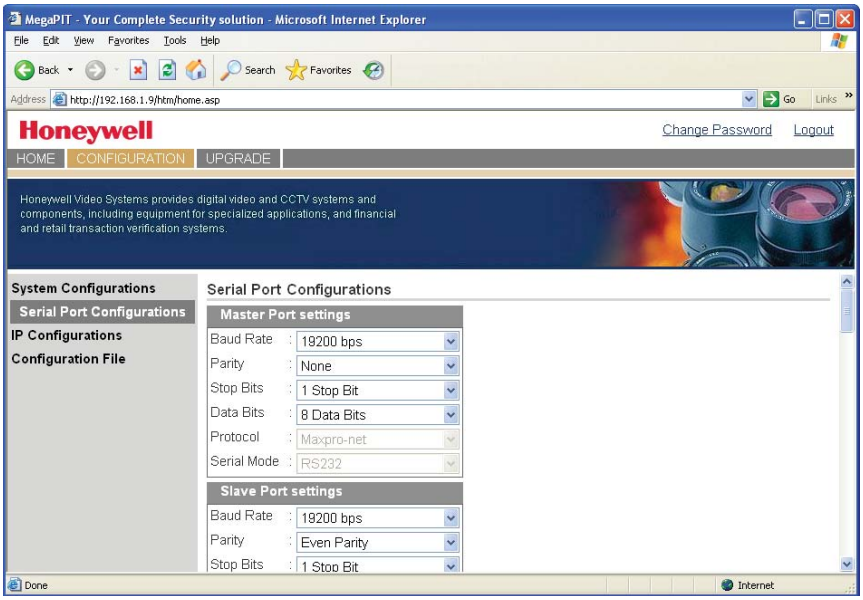
3. Modify the values in the fields as required.
4. To save the changes, click **Apply**.
   To cancel the current changes, click **Cancel**.
   To return to the default settings, click **Default**.

Configuring the Serial Ports

To configure the serial ports:

1. On the Home page, select the **CONFIGURATION** tab.
2. Select **Serial Port Configurations** on the left pane.

Figure 3-5 Serial Port Configurations Window


MegaPIT - Your Complete Security solution - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.1.9/htm/home.asp
Go Links
Honeywell
Change Password Logout
HOME CONFIGURATION UPGRADE
Honeywell Video Systems provides digital video and CCTV systems and components, including equipment for specialized applications, and financial and retail transaction verification systems.
System Configurations
Serial Port Configurations
IP Configurations
Configuration File
Serial Port Configurations
Master Port settings
Baud Rate : 19200 bps
Parity : None
Stop Bits : 1 Stop Bit
Data Bits : 8 Data Bits
Protocol : Maxpro-net
Serial Mode : RS232
Slave Port settings
Baud Rate : 19200 bps
Parity : Even Parity
Stop Bits : 1 Stop Bit
Done
Internet

3. Modify the values in the fields as required.
4. To save the changes, click **Apply**.
   To cancel the current changes, click **Cancel**.
   To return to the default settings, click **Default**.

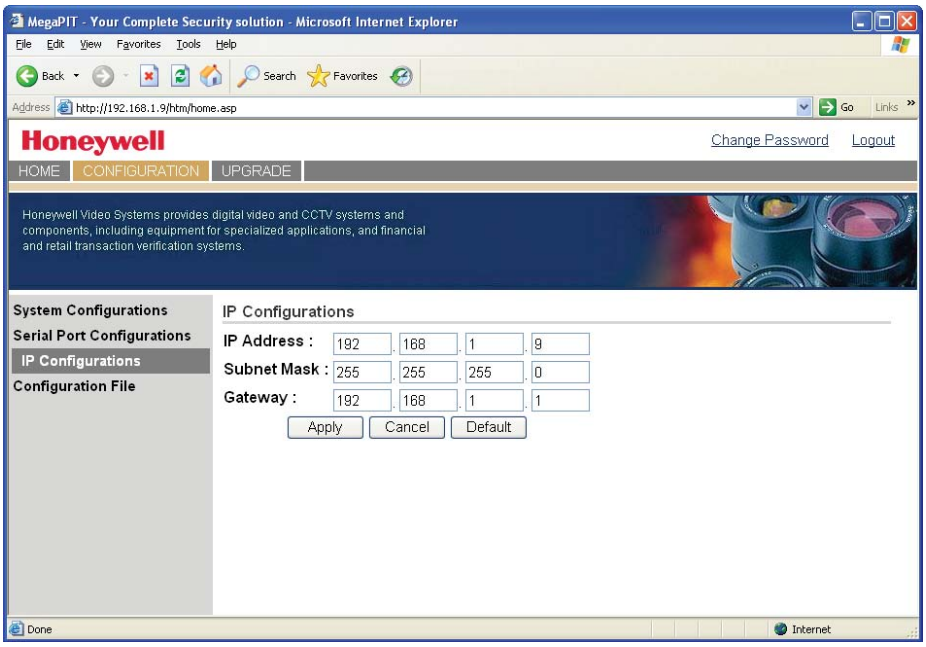
Configuring Network Settings

Note The default network settings are:
IP address: 192.168.1.9
Gateway: 192.168.1.1
Subnet Mask: 255.255.255.0

To configure the network settings:

1. On the Home page, select the **CONFIGURATION** tab.
2. Select **IP Configurations** on the left pane.

Figure 3-6 IP Configuration Window



3. Modify the values in the fields as required.
4. To save the changes, click **Apply**.
   To cancel the current changes, click **Cancel**.
   To return to the default settings, click **Default**.

Changing the Password

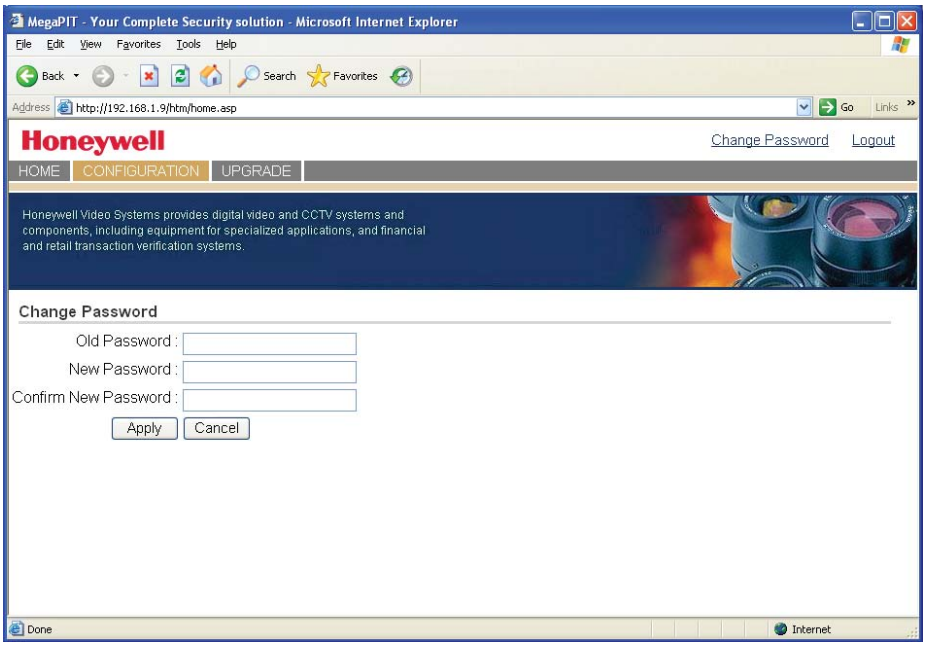
There is a single user account (Administrator) available in MegaPIT.

To change the password:

1. On the Home page, click **Change Password** on the top right.
2. The Change Password window displays. Enter the current password for verification in the **Old Password** field and then enter new values in the **New Password** and **Confirm New Password** fields.

Note The maximum length for the password is 20 characters. The password can be any combination of letters (a - z, or A - Z) and numbers (0 - 9) but may not contain symbols or spaces.

Figure 3-7 Change Password Window


MegaPIT - Your Complete Security solution - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.1.9/htm/home.asp
Go Links
Honeywell
Change Password Logout
HOME CONFIGURATION UPGRADE
Honeywell Video Systems provides digital video and CCTV systems and components, including equipment for specialized applications, and financial and retail transaction verification systems.
Change Password
Old Password :
New Password :
Confirm New Password :
Apply Cancel
Done
Internet

3. To save the changes, click **Apply**.
   To cancel the current changes, click **Cancel**.

4

MegaPIT Maintenance

This chapter covers how to upgrade the software and import/export the configuration file.

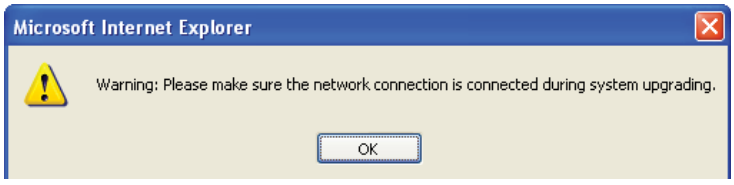
Software Upgrade

The software shipped with MegaPIT is contained in the flash memory and can be upgraded via the Internet.

To upgrade the software:

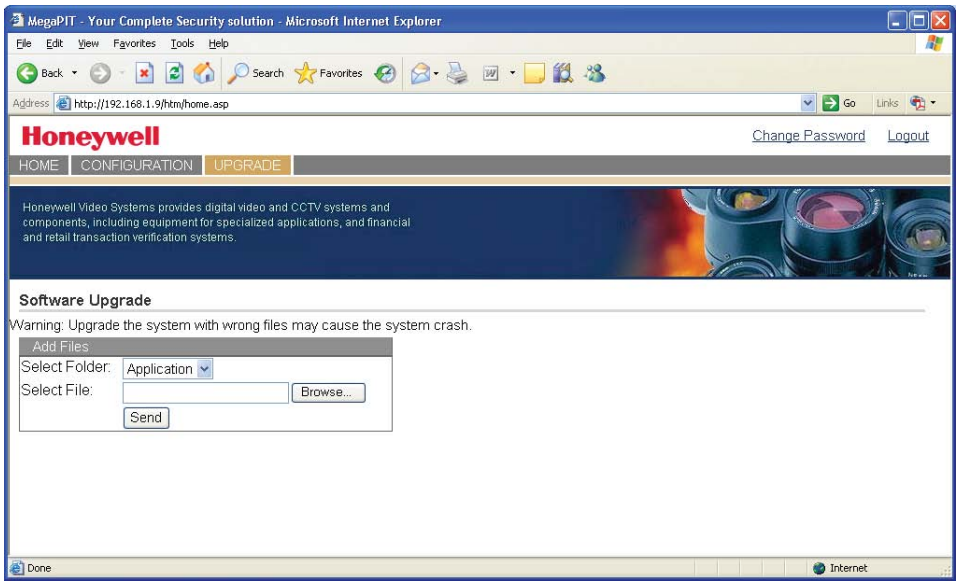
1. In the address bar of Internet Explorer, enter the URL for the MegaPIT. This is the same IP address as in *Configuring the Network* on page *28*.
2. The Log on window displays. Enter the user name and password (the default user name is **Administrator** and the default password is **1234**).
3. Click **Login**.
4. Click the **UPGRADE** tab on the home page. The following warning displays.

Figure 4-1 Upgrade Warning


Microsoft Internet Explorer
Warning: Please make sure the network connection is connected during system upgrading.
OK

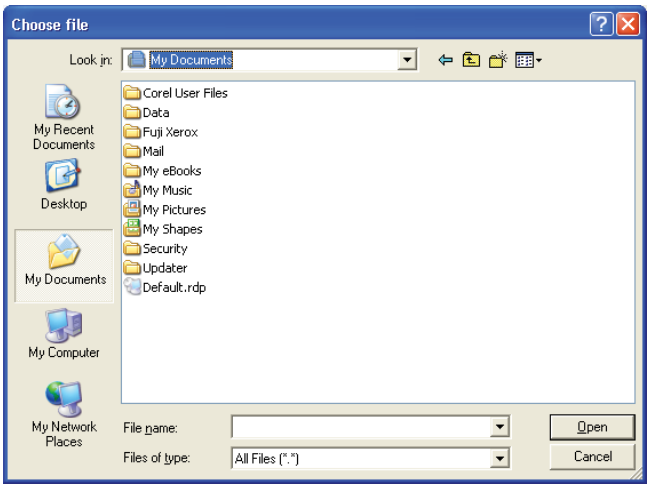
5. Check the network connection, then click **OK**.
6. The Software Upgrade window displays. Select the appropriate item in the **Select Folder** drop-down list (Application, FPGA, or KERNEL).

Figure 4-2 Software Upgrade Window


MegaPIT - Your Complete Security solution - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.1.9/htm/home.asp
Go Links
Honeywell
Change Password Logout
HOME CONFIGURATION UPGRADE
Honeywell Video Systems provides digital video and CCTV systems and components, including equipment for specialized applications, and financial and retail transaction verification systems.
Software Upgrade
Warning: Upgrade the system with wrong files may cause the system crash.
Add Files
Select Folder: Application
Select File: Browse...
Send
Done
Internet

7. Click **Browse**. The Choose File dialog displays.

Figure 4-3 Select the Upload File



8. Navigate to, then select the appropriate file. Click **Open**.
9. Click **Send** to upload the upgrade file. A success message appears to indicate a successful upload.
10. The software upgrades. After upgrading, the system reboots automatically.

Configuration File

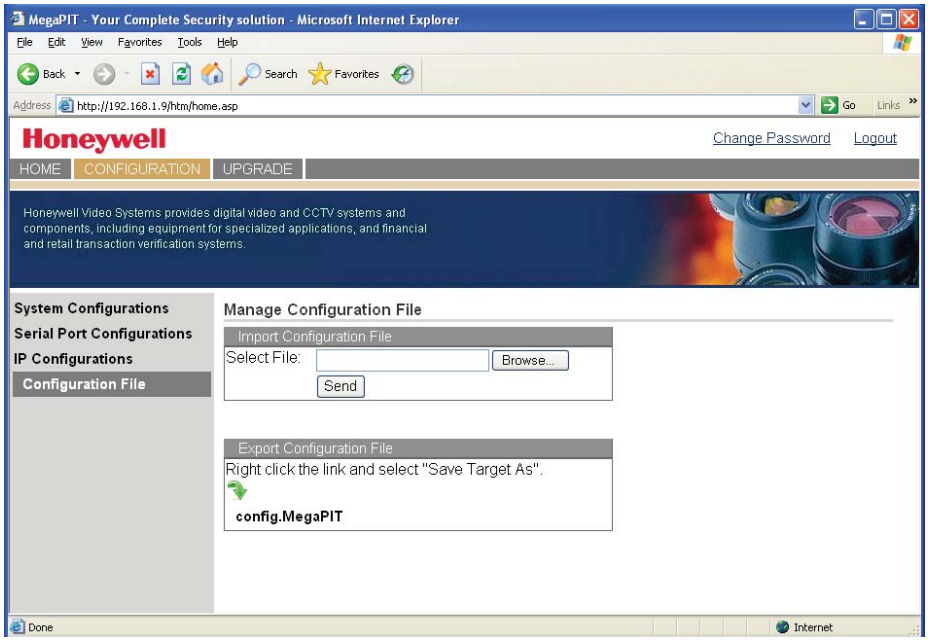
All the system settings, serial ports, and Ethernet settings are saved in one configuration file. You can use the MegaPIT web browser to import and export this file among different MegaPITs.

Importing the Configuration File

To import the configuration file:

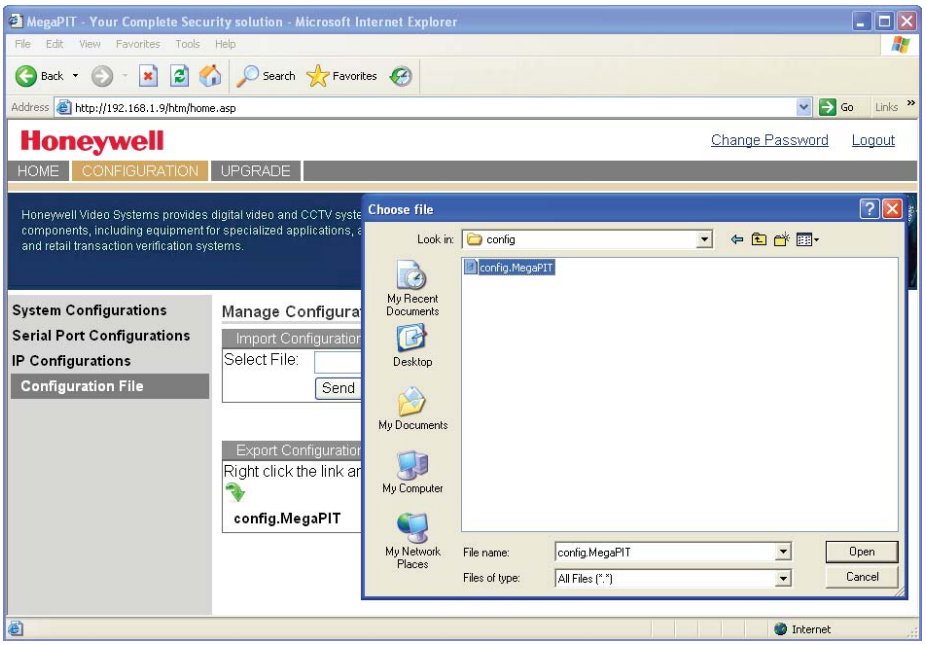
1. Launch the MegaPIT web browser (see *Configuration Using the MegaPIT Web Browser*, page 29).
2. On the **CONFIGURATION** tab, select **Configuration File** on the left pane. The following window opens.

Figure 4-4 Import Configuration File



3. To import the configuration file, click **Browse**. The Choose File dialog displays.

Figure 4-5 Select the Configuration File to be Imported



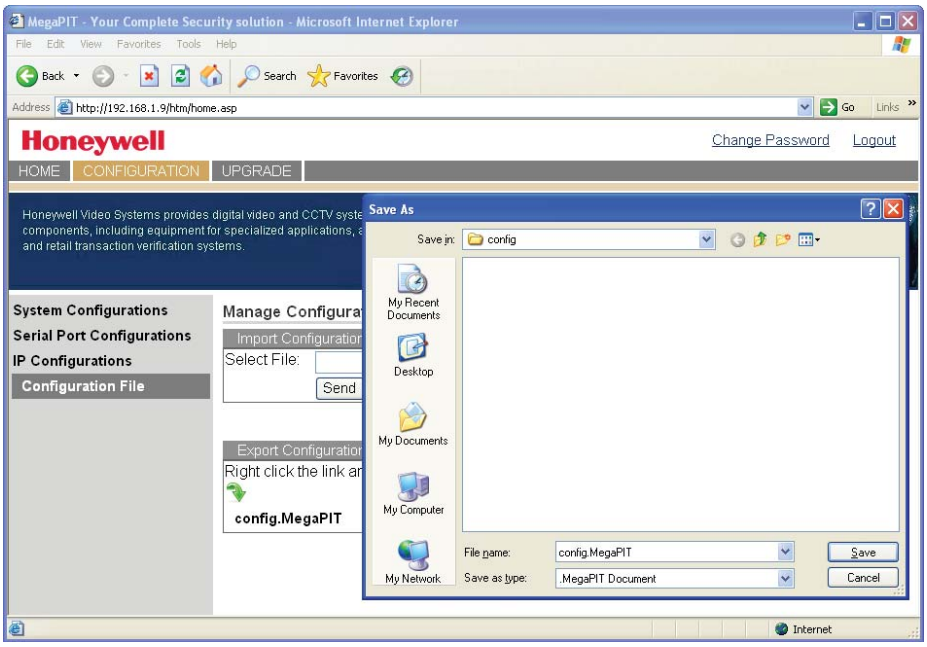
4. Navigate to, then select the appropriate file. Click **Open**.
5. Click **Send** to import the configuration file. A success message appears to indicate a successful import.
6. After importing, the system reboots automatically.

Exporting the Configuration File

To export the configuration file:

1. After launching the MegaPIT web browser, on the **CONFIGURATION** tab, select **Configuration File**.
2. Right-click **config.MegaPIT**, then select **Save target as…** from the drop-down list.

Figure 4-6 Select the File Location



3. Select the location where you want to save the configuration file.
4. Click **Save**. The configuration file is exported to your PC hard drive.

Note The configuration file can be saved as any file name when being exported. However, when importing, the file name must follow the format ***xxx.MegaPIT*** (where *xxx* can be any valid characters and the unique extension *MegaPIT* is case sensitive.

A

Typical Application

This appendix provides an example of a typical system application, when the a MegaPIT is used to connect a MAXPRO-Net Server to a VideoBloX chassis.

System Connections

In this scenario, the physical connection is shown in *Figure A-1*.

1. Make the port connections as shown in *Figure A-1*.
2. Set the port on the MegaPIT that connects to the VideoBloX chassis to **VideoBloX(matrix)**. By selecting this mode, the communication parameter sets automatically.
3. Follow *Table A-1* to set the DB9 Port pin definitions.
4. Follow *Figure A-2* and *Figure A-3* to set the pin definitions for the keyboard controller and MegaPIT port connections respectively.
5. Set the VideoBloX chassis to **Slave** mode by setting the chassis DIP switch SW4 to **1**.

Figure A-1 MAXPRO-Net, MegaPIT, and VideoBloX Chassis Connection

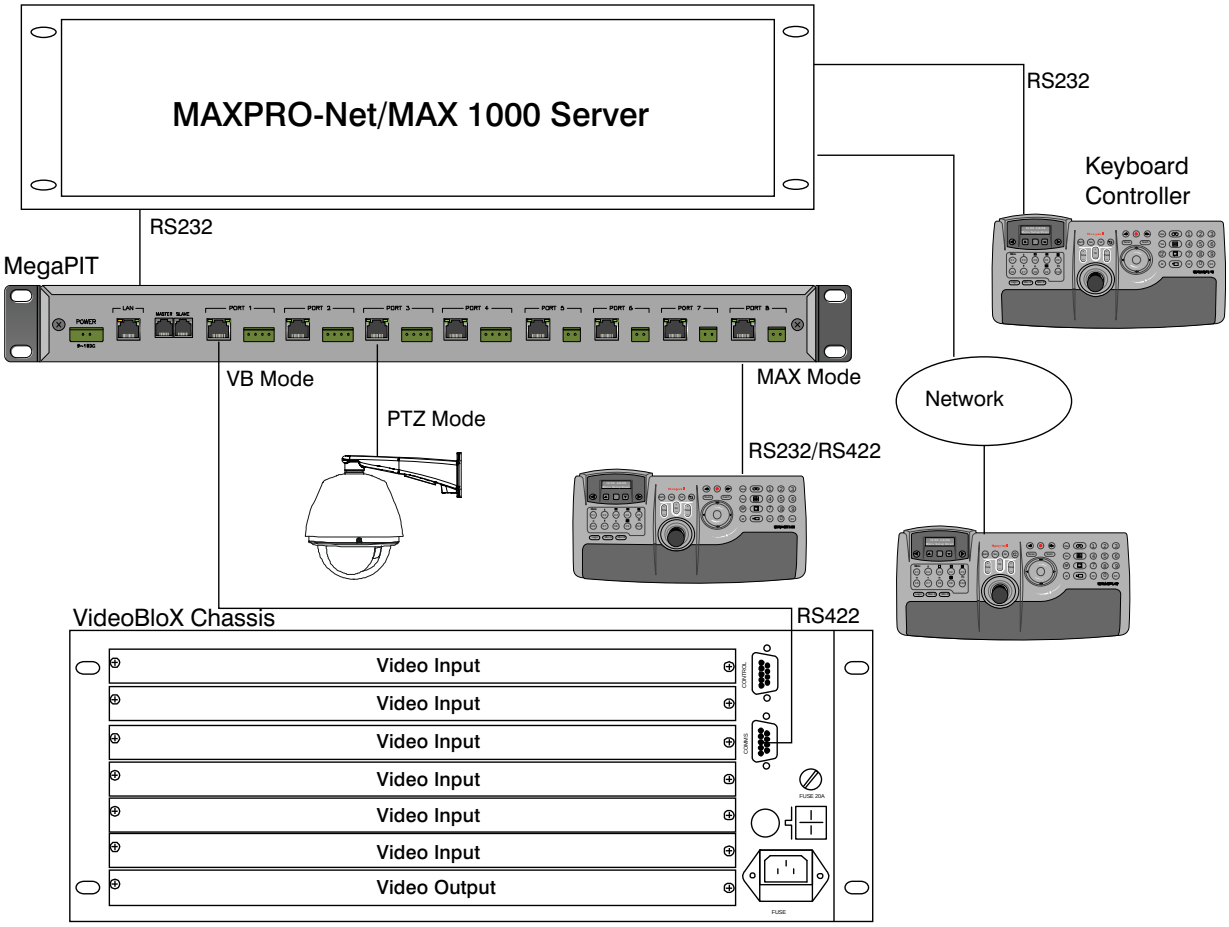


Table A-1 DB9 Port Pin Definitions

MAXPRO-Net COM DB9	VideoBloX COM DB9 (Master Mode)		VideoBloX COM DB9 (Slave Mode)	
Pin 2, RX	Pin 1, TX-	Pin 2, TX+	Pin 1, RX-	Pin 2, RX+
Pin 3, TX	Pin 3, RX+	Pin 4, RX-	Pin 3, TX+	Pin 4, TX-
Pin 5, GND	Pin 5, GND		Pin 5, GND	

Figure A-2 Keyboard Controller Pin Definition

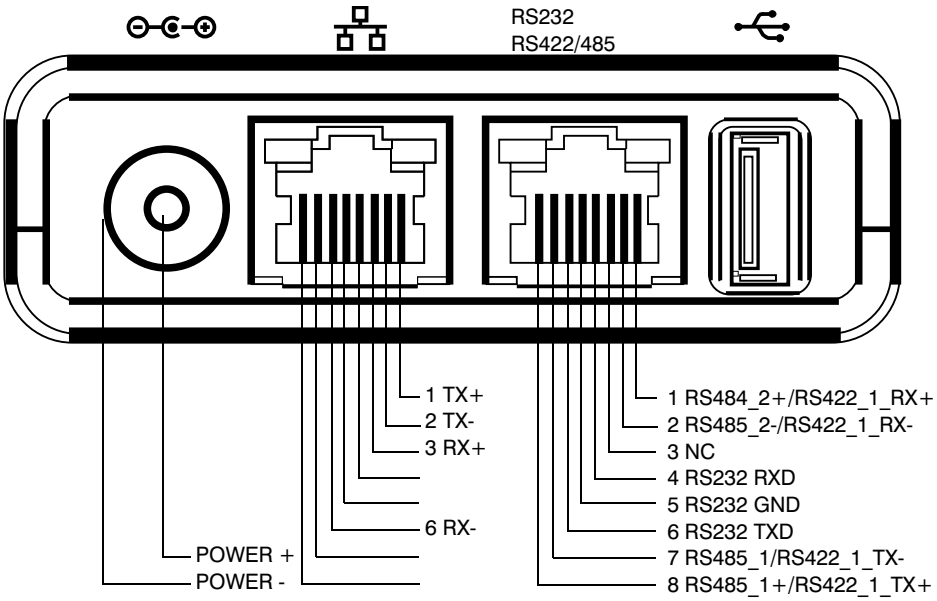
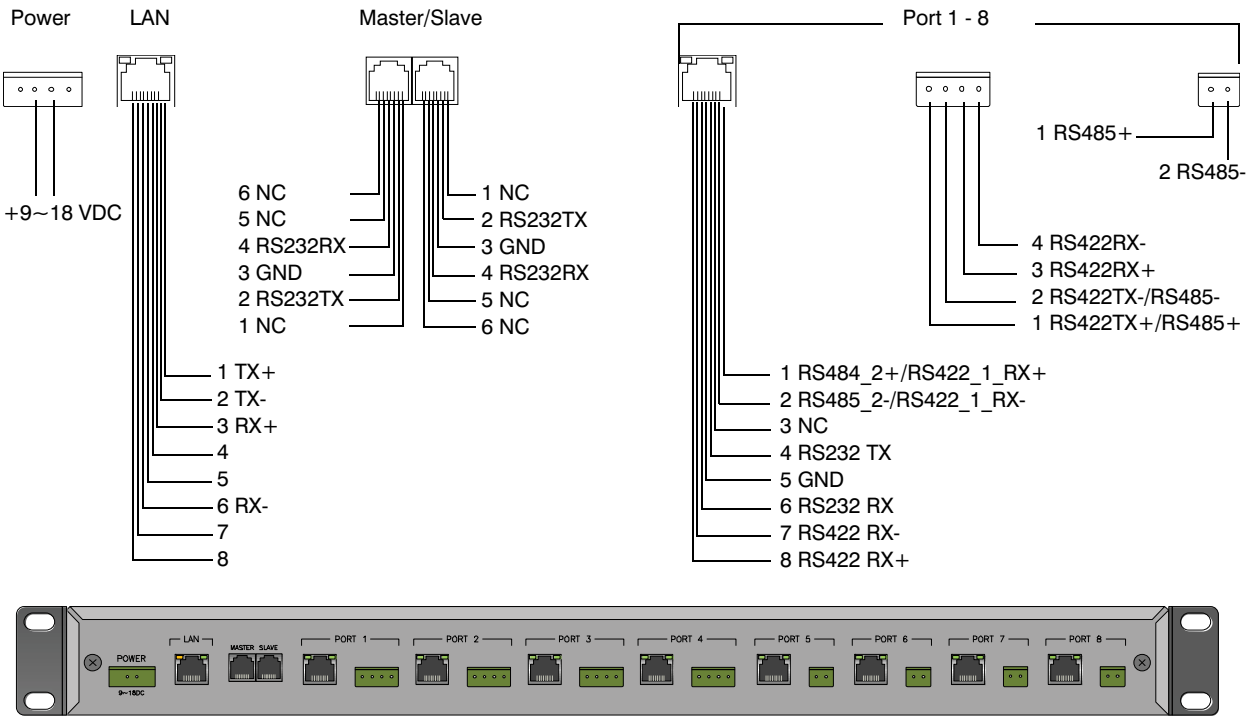


Figure A-3 MegaPIT Port Connection



Connecting MAXPRO-Net to Multiple VideoBloX Chassis With an HVBGPIO in Master Mode

In this scenario, a MegaPIT port expander connects a MAXPRO-Net server to VideoBloX chassis that contain an HVBGPIO which is set to **Master** mode. The physical connections are shown in *Figure A-4*.

Figure A-4 Multiple VideoBloX Chassis (With HVBGPIO Set to Master) Connected to a MAXPRO-Net Through a MegaPIT Port Expander

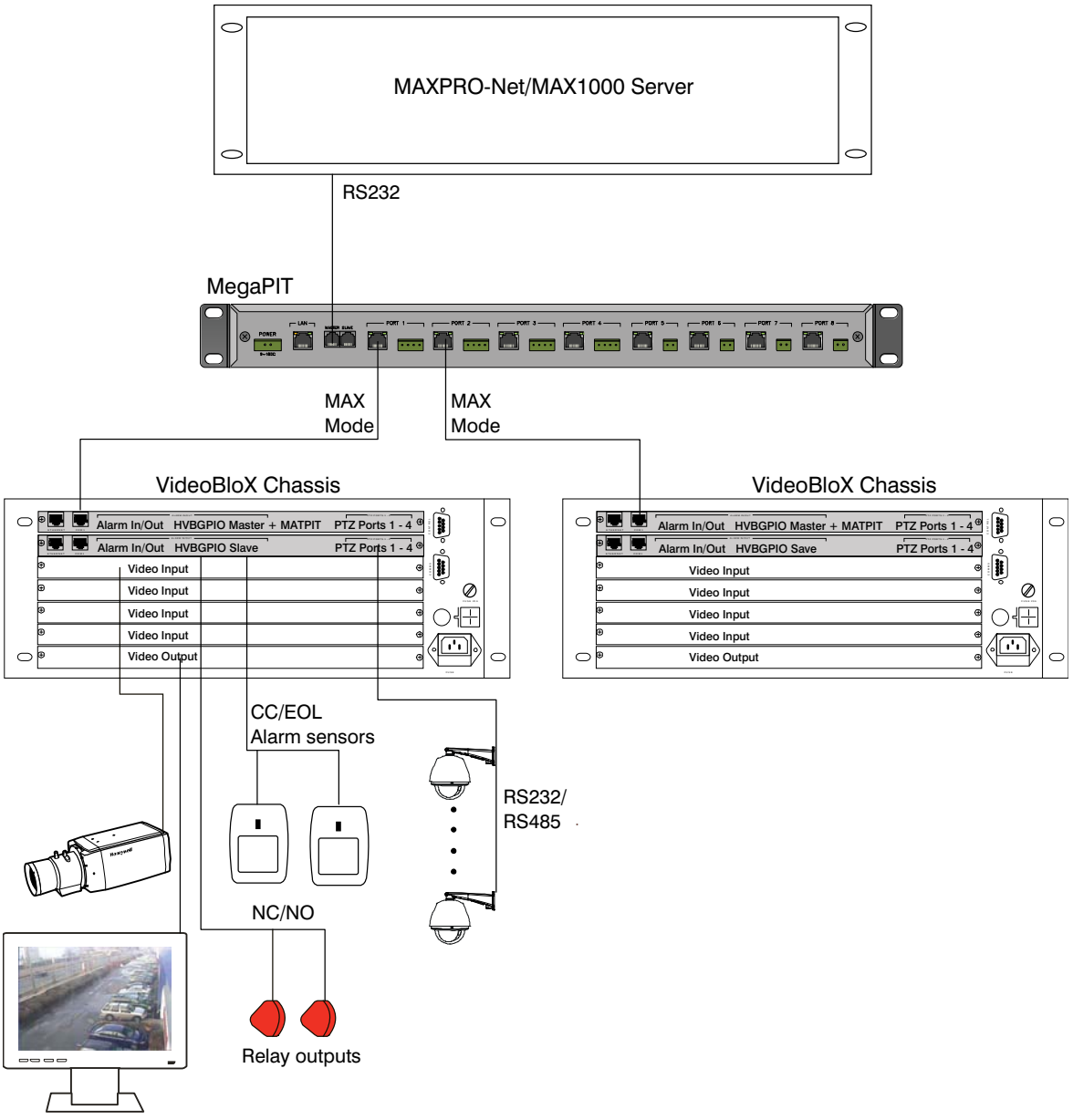


Figure A-5 shows the pin definitions for the HVBGPIO COM Port, when this port is used to connect to a MegaPIT or to an older MAX1000 Server.

Note The RS232 port on the MAX1000 and on the HVBGPIO (when it is set to **Master mode**) are set by default to **19k2**, **EVEN**, **7**, **1**.

Set these same parameters on the MAXPRO-Net RS232 port and on the connecting port on the MegaPIT PC.

Figure A-5 HVBGPIO COM 1 Port Pin Definition

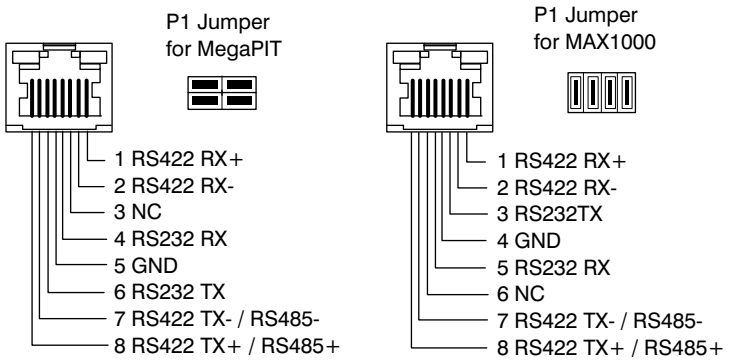
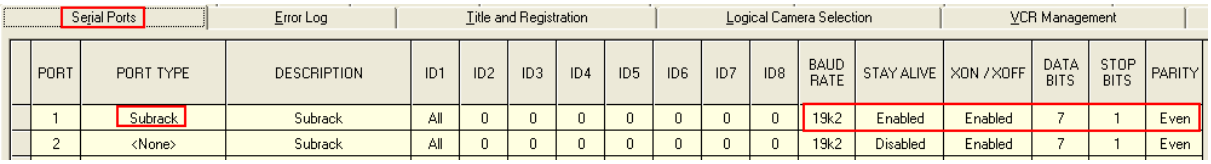


Figure A-6 MAXPRO-Net RS232 Port Setting



	PORT	PORT TYPE	DESCRIPTION	ID1	ID2	ID3	ID4	ID5	ID6	ID7	ID8	BAUD RATE	STAY ALIVE	XON / XOFF	DATA BITS	STOP BITS	PARITY
	1	Subrack	Subrack	All	0	0	0	0	0	0	0	19k2	Enabled	Enabled	7	1	Even
	2	<None>	Subrack	All	0	0	0	0	0	0	0	19k2	Disabled	Enabled	7	1	Even

Parameter Setting for Basic Functions

Most of the parameter settings for the two scenarios described above are the same, except where otherwise noted.

Video Input Setting

To configure video inputs:

1. On the MAXPRO-Net server, access the **Video Input** tab (see *Figure A-7*).
2. Follow *Table A-2* to set the video input parameters.

Figure A-7 Video Input Parameters

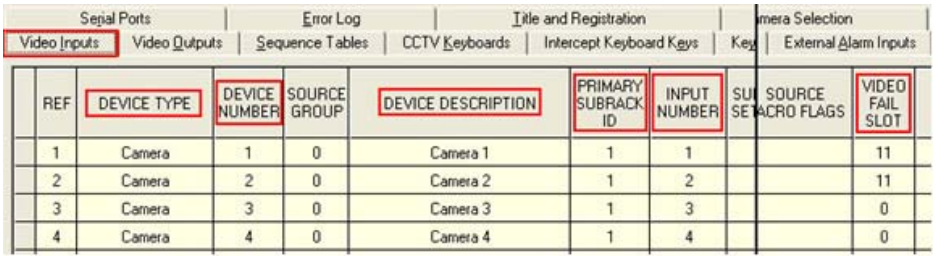


Table A-2 Video Input Parameter Settings

Parameter	Description
DEVICE TYPE	Only **Camera** type is currently supported.
DEVICE NUMBER	Select a number to control this input.
DEVICE DESCRIPTION	The title displayed on the screen.
PRIMARY SUBRACK ID **INPUT NUMBER**	The PRIMARY SUBRACK ID is the address of the subrack to which the video input is physically connected. The INPUT NUMBER is the physical connection point on the primary subrack. **(PRIMARY SUBRACK ID-1)*128+ INPUT NUMBER** is the physical input number. The INPUT NUMBER range is 1 to 128. The maximum number of inputs is 9999.
VIDEO FAIL SLOT	To enable automatic video fail detection, enter the slot number where the video fail detector module is located. **Video Inputs** / **Video Fail Slot** 1 to 32 — 11 33 to 64 — 12 65 to 96 — 13 97 to 128 — 14 **Example:** If input 129 needs reporting, set the parameters as follows: PRIMARY SUBRACK ID = **2** INPUT NUMBER = **1** VIDEO FAIL SLOT = **11**

Note When a video input has been set to be reported (for example, input 1), the LED Tx Data on the VideoBloX chassis flashes.

In addition, If there is an input board with an address of 1, the PWR LED on the input board and the RxDATA and RTS LEDs on the VideoBloX chassis also flash.

When setting input polling for MegaPIT, please ensure that you enable the Video Polling parameter in the MegaPIT.

Video Output Setting

To configure video output settings:

1. Access the ***Video Outputs*** tab (see *Figure A-8*.
2. Follow *Table A-3* to set the video output parameters.

Figure A-8 Video Output Parameters

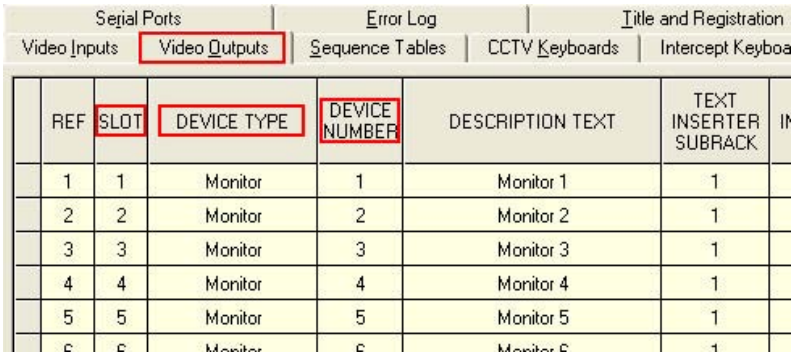


Table A-3 Video Output Parameter Settings

Parameter	Description
SLOT	Physical output number
DEVICE TYPE	Select **Monitor**.
DEVICE NUMBER	Select a number to control this output.

PTZ Device Control

Follow *Table A-4* to set PTZ controls using a MegaPIT.

Table A-4 PTZ Control via MegaPIT Parameter Settings

Parameter	Description
CONTROL ID	Port number (range is 1 to 799); indicates the MegaPIT ID.
CONTROL SLOT	. **Slots** = **Port** / **Slots** = **Port** 1 to 4 = 1 / 17 to 20 = 5 5 to 8 = 2 / 21 to 24 = 6 9 to 12 = 3 / 25 to 28 = 7 13 to 16 = 4 / 29 to 32 = 8
CONTROL OFFSET	The CONTROL OFFSET range is 1 to 32. The address of the PTZ device is **((CONTROL SLOT-1)%4)*32+CONTROL OFFSET**. Since each port has four slots, each port can support 128 PTZ devices (4 x 32).

Note For more detailed information on setting CONTROL ID, CONTROL SLOT, and CONTROL OFFSET parameters, see *Appendix B, PTZ Look Up Table*.

B

PTZ Look Up Table

Use *Table B-1* to determine values to add to the Setmax source control.

NOTES:

1. *Control ID* is the address of the MegaPIT, valid range for Setmax 1 to 799; Suggested first address.
2. Decide on the actual PTZ address (1 to 128) and then locate it under the **Actual PTZ Address** column.
3. Look up the corresponding **Control Slot**, depending on which port you are connected to.
4. Look up the corresponding **Control Offset**.

Table B-1 PTZ Look Up Table

Control Slot (P=Port on MegaPIT)								Control Offset	Actual PTZ Address	Control Slot (P=Port on MegaPIT)								Control Offset	Actual PTZ Address
P1	P2	P3	P4	P5	P6	P7	P8			P1	P2	P3	P4	P5	P6	P7	P8		
1	5	9	13	17	21	25	29	1	1	3	7	11	15	19	23	27	31	1	65
1	5	9	13	17	21	25	29	2	2	3	7	11	15	19	23	27	31	2	66
1	5	9	13	17	21	25	29	3	3	3	7	11	15	19	23	27	31	3	67
1	5	9	13	17	21	25	29	4	4	3	7	11	15	19	23	27	31	4	68
1	5	9	13	17	21	25	29	5	5	3	7	11	15	19	23	27	31	5	69
1	5	9	13	17	21	25	29	6	6	3	7	11	15	19	23	27	31	6	70
1	5	9	13	17	21	25	29	7	7	3	7	11	15	19	23	27	31	7	71
1	5	9	13	17	21	25	29	8	8	3	7	11	15	19	23	27	31	8	72
1	5	9	13	17	21	25	29	9	9	3	7	11	15	19	23	27	31	9	73
1	5	9	13	17	21	25	29	10	10	3	7	11	15	19	23	27	31	10	74
1	5	9	13	17	21	25	29	11	11	3	7	11	15	19	23	27	31	11	75
1	5	9	13	17	21	25	29	12	12	3	7	11	15	19	23	27	31	12	76
1	5	9	13	17	21	25	29	13	13	3	7	11	15	19	23	27	31	13	77
1	5	9	13	17	21	25	29	14	14	3	7	11	15	19	23	27	31	14	78
1	5	9	13	17	21	25	29	15	15	3	7	11	15	19	23	27	31	15	79
1	5	9	13	17	21	25	29	16	16	3	7	11	15	19	23	27	31	16	80
1	5	9	13	17	21	25	29	17	17	3	7	11	15	19	23	27	31	17	81
1	5	9	13	17	21	25	29	18	18	3	7	11	15	19	23	27	31	18	82
1	5	9	13	17	21	25	29	19	19	3	7	11	15	19	23	27	31	19	83
1	5	9	13	17	21	25	29	20	20	3	7	11	15	19	23	27	31	20	84
1	5	9	13	17	21	25	29	21	21	3	7	11	15	19	23	27	31	21	85
1	5	9	13	17	21	25	29	22	22	3	7	11	15	19	23	27	31	22	86
1	5	9	13	17	21	25	29	23	23	3	7	11	15	19	23	27	31	23	87

Table B-1 PTZ Look Up Table

Control Slot (P=Port on MegaPIT)								Control Offset	Actual PTZ Address	Control Slot (P=Port on MegaPIT)								Control Offset	Actual PTZ Address
P1	P2	P3	P4	P5	P6	P7	P8			P1	P2	P3	P4	P5	P6	P7	P8		
1	5	9	13	17	21	25	29	24	24	3	7	11	15	19	23	27	31	24	88
1	5	9	13	17	21	25	29	25	25	3	7	11	15	19	23	27	31	25	89
1	5	9	13	17	21	25	29	26	26	3	7	11	15	19	23	27	31	26	90
1	5	9	13	17	21	25	29	27	27	3	7	11	15	19	23	27	31	27	91
1	5	9	13	17	21	25	29	28	28	3	7	11	15	19	23	27	31	28	92
1	5	9	13	17	21	25	29	29	29	3	7	11	15	19	23	27	31	29	93
1	5	9	13	17	21	25	29	30	30	3	7	11	15	19	23	27	31	30	94
1	6	10	14	18	22	26	30	31	31	3	8	12	16	20	24	28	32	31	95
1	6	10	14	18	22	26	30	32	32	3	8	12	16	20	24	28	32	32	96
2	6	10	14	18	22	26	30	1	33	4	8	12	16	20	24	28	32	1	97
2	6	10	14	18	22	26	30	2	34	4	8	12	16	20	24	28	32	2	98
2	6	10	14	18	22	26	30	3	35	4	8	12	16	20	24	28	32	3	99
2	6	10	14	18	22	26	30	4	36	4	8	12	16	20	24	28	32	4	100
2	6	10	14	18	22	26	30	5	37	4	8	12	16	20	24	28	32	5	101
2	6	10	14	18	22	26	30	6	38	4	8	12	16	20	24	28	32	6	102
2	6	10	14	18	22	26	30	7	39	4	8	12	16	20	24	28	32	7	103
2	6	10	14	18	22	26	30	8	40	4	8	12	16	20	24	28	32	8	104
2	6	10	14	18	22	26	30	9	41	4	8	12	16	20	24	28	32	9	105
2	6	10	14	18	22	26	30	10	42	4	8	12	16	20	24	28	32	10	106
2	6	10	14	18	22	26	30	11	43	4	8	12	16	20	24	28	32	11	107
2	6	10	14	18	22	26	30	12	44	4	8	12	16	20	24	28	32	12	108
2	6	10	14	18	22	26	30	13	45	4	8	12	16	20	24	28	32	13	109
2	6	10	14	18	22	26	30	14	46	4	8	12	16	20	24	28	32	14	110
2	6	10	14	18	22	26	30	15	47	4	8	12	16	20	24	28	32	15	111
2	6	10	14	18	22	26	30	16	48	4	8	12	16	20	24	28	32	16	112
2	6	10	14	18	22	26	30	17	49	4	8	12	16	20	24	28	32	17	113
2	6	10	14	18	22	26	30	18	50	4	8	12	16	20	24	28	32	18	114
2	6	10	14	18	22	26	30	19	51	4	8	12	16	20	24	28	32	19	115
2	6	10	14	18	22	26	30	20	52	4	8	12	16	20	24	28	32	20	116
2	6	10	14	18	22	26	30	21	53	4	8	12	16	20	24	28	32	21	117
2	6	10	14	18	22	26	30	22	54	4	8	12	16	20	24	28	32	22	118
2	6	10	14	18	22	26	30	23	55	4	8	12	16	20	24	28	32	23	119
2	6	10	14	18	22	26	30	24	56	4	8	12	16	20	24	28	32	24	120
2	6	10	14	18	22	26	30	25	57	4	8	12	16	20	24	28	32	25	121
2	6	10	14	18	22	26	30	26	58	4	8	12	16	20	24	28	32	26	122
2	6	10	14	18	22	26	30	27	59	4	8	12	16	20	24	28	32	27	123
2	6	10	14	18	22	26	30	28	60	4	8	12	16	20	24	28	32	28	124
2	6	10	14	18	22	26	30	29	61	4	8	12	16	20	24	28	32	29	125
2	6	10	14	18	22	26	30	30	62	4	8	12	16	20	24	28	32	30	126
2	6	10	14	18	22	26	30	31	63	4	8	12	16	20	24	28	32	31	127
2	6	10	14	18	22	26	30	32	64	4	8	12	16	20	24	28	32	32	128

C

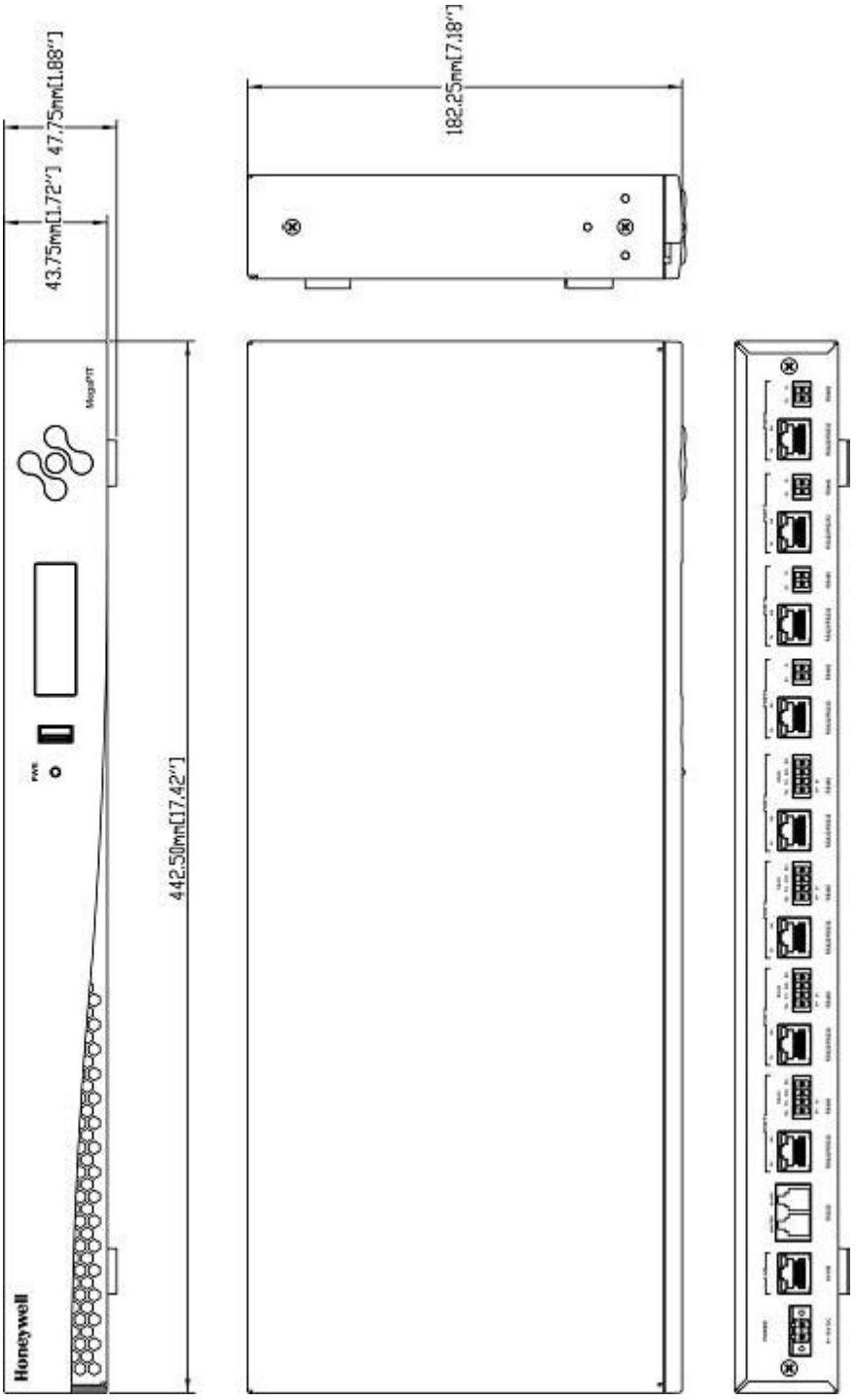
Specifications and Dimensions

Table C-1 Specifications

Specifications	Description
Operational	
LCD:	Type: STN, Positive Image Backlight: Yellow Green Characters: 122 x 32 Dots
USB:	Type: A Version: USB 1.1 (Future)
Web Browser Supported:	IE 6.0 or > on Windows 2000, Windows 2000 Server, XP Pro SP2, Vista Home, Vista Premium
PTZ Protocols (Address range):	Honeywell Diamond (128), Honeywell VCL (128), Honeywell IntelliBus™ (128), Pelco P (32), Pelco D (128)
Matrix Protocols:	VideoBloX Sub rack, MAX-1000 Sub rack, HMAX162
Electrical	
Input Voltage:	100-240 VAC 50/60 Hz
Output Voltage:	9 to 18 VDC
Power Consumption:	2 A @ 12 VDC
Battery:	Voltage: 3V Type: CR2032
Mechanical	
Construction:	Housing: Alumin7um (AL6055)
Finish:	Spray black powder with silver gray front panel
Dimensions:	17.42 in. (W) x 1.88 in. (H) x 4.63 in. (D) 442.5mm (W) x 47.75mm (H) x 182.25mm (D) Standard 19 in. rack width by 1U height
Weight:	5.06 lb. (2.3 kg)

Specifications	Description
Connectors:	LAN: 1x RJ45 Ethernet (10Base-T, 100 Base-TX) Master/Slave: 2x RJ11 RS232 (MAXPRO MX18 pin out) Port 1 to 4:RJ45 (RS232 and RS422) or 4 position Terminal Block RS422 Port 5 to 8: RJ45 (RS232 and RS422) or 2 position Terminal Block RS485 Power: Locking, 2 pos Terminal Block Operating Distance: Up to 4000 ft. (1219m) for RS422/RS485
Environmental	
Temperature:	Operating: 14°F to 122°F (-10°C to +50°C) Storage: -4°F to 149°F (-20°C to +65°C)
Relative humidity:	0 to 95% RH (non-condensing)
Regulatory	
Emissions:	FCC: Part 15, Class B CE: Class B (EN 55022/A2:2003 89/336/EEC) ICES-003
Immunity:	EN 50130-4/A2:2003
Safety:	UL 60950-1 EN 60950-1:2006 2006/95/EC

Figure C-1 MegaPIT Housing Dimensions



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